



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Pfeffer-KO FOG

Print date 13.09.2023
Revision date 13.09.2023
Version 8.2 (en)
replaces version of 06.04.2023 (8.1)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation Pfeffer-KO FOG
Unique Formula Identifier UFI: 7AN9-EAJ4-K00V-TYVQ

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture
animal defense

1.3 Details of the supplier of the safety data sheet

Manufacturer
F.W.Klever
Hauptstraße 20
D-84168 Aham
Telephone +49 (0) 8744 96 99 10
Telefax + 49 (0) 8744 96 99 96
E-mail info@ballistol.de
Website www.ballistol.de

Department responsible for information:
Qualitätssicherung
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):
info@ballistol.de

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
--	--------------------------

Aerosol 1, H222 H229
Eye Irrit. 2, H319
STOT SE 3, H335

Hazard statements for physical hazards

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Hazard statements for health hazards

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

*** 2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]



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Hazard pictograms



GHS02



GHS07

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing and eye protection/face protection.
P211 Do not spray on an open flame or other ignition source.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Only empty the contents / container for recycling.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains 0.9% capsaicin. Can cause allergic reactions.

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
74-98-6	200-827-9	propane	< 15 weight-%	Flam. Gas 1; H220 Press. Gas	
106-97-8	203-448-7	butane	< 15 weight-%	Flam. Gas 1; H220 Press. Gas	



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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
404-86-4	206-969-8	Capsaicin	0.9 weight-%	Acute Tox. 3; H301 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335	

Remark

Aerosol: Propellant propane/butane gas

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air.
In the event of symptoms refer for medical treatment.

Following skin contact

Wash immediately with:
Water

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

The following symptoms may occur:
At inhalation of large quantities (whole can contents) lung edema possible.
Cough
Dyspnoea
Headache

Effects

Respiratory complaints

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam
ABC-powder
Carbon dioxide (CO₂)
Water mist

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.
Heating causes rise in pressure with risk of bursting

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.
Keep people away and stay on the upwind side.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Flush away residues with water.

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage



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7.1 Precautions for safe handling

Protective measures

Do not spray on naked flames or any incandescent material.
Keep away from sources of ignition - No smoking.
Protect aerosols from temperatures exceeding 50°C/ 122°F
Do not open with force or incinerate, even when empty
Do not inhale aerosols
n.a. (non-applicable), no working material

Advices on general occupational hygiene

n.a. (non-applicable), no working material

7.2 Conditions for safe storage, including any incompatibilities

Storage class

2B Aerosol dispensers and lighters

Materials to avoid

Do not store together with:
Food and feedingstuffs

Further information on storage conditions

Protect from extreme heat and cold.

7.3 Specific end use(s)

Recommendation

Only to use for self-defence, do not spray upwind

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
106-97-8	203-448-7	n-Butane	600 [ml/m ³ (ppm)] 1450 [mg/m ³] Short-term(ml/m ³) 750 Short-term(mg/m ³) 1810 (UK)
106-97-8	203-448-7	n-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)

8.2 Exposure controls

Personal protection equipment

Eye/face protection

safety goggles, in case of increased risk add protective face shield

Hand protection

In the event of splash contact, glove material nitrile rubber, layer thickness > 0.11 mm, breakthrough time > 60 min
Gloves with long cuffs

Body protection:

Solvent-resistant protective clothing



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Respiratory protection

Suitable respiratory protection apparatus:
Self-contained respirator (breathing apparatus)
Breathing apparatus with combination filter A2/P2

Additional information

When used properly no personal protective equipment is required. In case of unintentional release of larger quantities we recommend:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

red-dark brown

Odour

irritant

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	78 °C pressure 1013 mbar		
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit approx. 10.9 Vol-%		(Propan)
Lower and upper explosion limit	Lower explosion limit approx. 1.5 Vol-%		(Propan)
Flash point	approx. 13 °C		
Auto-ignition temperature	approx. 425 °C		Die Daten beziehen sich auf das Lösemittel.
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	not determined		
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	approx. 0.8 g/cm ³ (20°C) pressure 1013 mbar		information concerns to liquid phase
Relative vapour density	not determined		
particle characteristics	not determined		



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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C/122°F.

10.5 Incompatible materials

Oxidising agent, strong

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Additional information

Product is stable under normal storage conditions

*** SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	approx. 160 mg/kg Species Rat		Detail refers to the irritant (Contents of 4 can)
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant.		Practical experience/human evidence.

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant. Species Rabbit		experiences

Sensitisation to the respiratory tract

not determined



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Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
Sensitizing was watched while permanent skin contact with active substance (CS)			

*** Germ cell mutagenicity**

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity			No substance contained in the mixture is suspected of being mutagenic	

Carcinogenicity

Animal data

	Value	Method	Result / Evaluation	Remark
Carcinogenicity			No substance contained in the mixture is suspected of being mutagenic	

Reproductive toxicity

Animal data

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity			No substance contained in the mixture is suspected of being mutagenic	

STOT-single exposure

STOT SE 1 and 2

Animal data

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (single exposure)					No data available
Dermal specific target organ toxicity (single exposure)					No data available
Inhalative specific target organ toxicity (single exposure)					No data available

STOT-repeated exposure

Animal data

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)					No data available



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Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)				No data available
Dermal specific target organ toxicity (repeated exposure)				No data available
Dermal specific target organ toxicity (repeated exposure)				No data available
Inhalative specific target organ toxicity (repeated exposure)				No data available
Inhalative specific target organ toxicity (repeated exposure)				No data available

Aspiration hazard

not determined

11.2 Information on other hazards

Other information

Irritating to respiratory system.
Irritates mucous membranes.

The classification of the mixture is based on the results of the calculation method (conventional method) of VO 1272/2008. According to the manufacturer's experience, dangers beyond the labeling are not to be expected.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		



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12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Table with 2 columns: Waste code product, Waste name. Row 1: 200301, mixed municipal waste

Appropriate disposal / Package

Completely emptied packages can be recycled.

SECTION 14: Transport information

Table with 4 columns: Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR). Rows 14.1-14.5

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

All transport carriers

Item 2.3.1.2 is forbidden to IATA, section 2 pepper/Muskat/Tear gas spray etc. which substances confusing or making incompetently contain in accordance with at the person, in the hand baggage and in pieces of baggage given up!

Land transport (ADR/RID)

Table with 2 columns: UN number or ID number, UN proper shipping name. Row 1: UN 1950, AEROSOLS



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Transport hazard class(es) 2.1
Hazard label(s) 2.1
Classification code 5F
Packing group -
Environmental hazards No
Limited quantity (LQ) 1 L
Special provisions 190, 327, 344, 625
Tunnel restriction code D

Sea transport (IMDG)

UN number or ID number UN 1950
UN proper shipping name AEROSOLS
Transport hazard class(es) 2.1
Packing group -
Environmental hazards No
Limited quantity (LQ) 1 L
Marine pollutant No
EmS F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number UN 1950
UN proper shipping name Aerosols, flammable
Transport hazard class(es) 2.1
Packing group -
Environmental hazards No

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Restrictions on use

Only to use for self-defence

Other regulations (EU)

To follow:

Aerosol directive (75/324/EEC)

15.2 Chemical Safety Assessment

National regulations

For this substance a chemical safety assessment has not been carried out.



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SECTION 16: Other information

Key literature references and sources for data

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Additional information

National and local regulations concerning chemicals shall be observed.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

- H220 Extremely flammable gas.
- H301 Toxic if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

Indication of changes

* Data changed compared with the previous version